

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1. (Currently Amended) A metal-ceramic circuit board comprising:

a base plate of aluminum or aluminum alloy, the base plate having a proof stress of not higher than ~~[[320]]~~ 95 (MPa) and a thickness of not smaller than 1 mm; and

a ceramic substrate board formed of a planar plate,

wherein one surface of the ceramic substrate board is bonded directly to the base plate without any intervening material in such a manner that the aluminum or aluminum alloy is molten, contacted with the ceramic substrate board, and cooled, and wherein an area of the base plate is larger than an area of the ceramic substrate board.

2. (Currently Amended) The metal-ceramic circuit board according to claim 1, wherein ~~the other~~ another surface of the ceramic substrate board has a metal conductive member for an electronic circuit.

3. (Original) The metal-ceramic circuit board according to claim 2, wherein said conductive member is made of a material selected from copper, copper alloy, aluminum and aluminum alloy.
4. (Original) The metal-ceramic circuit board according to claim 1, wherein said ceramic substrate board is made of a material selected from alumina, aluminum nitride and silicon nitride.
5. (Original) The metal-ceramic circuit board according to claim 2, wherein said ceramic substrate board is made of a material selected from alumina, aluminum nitride and silicon nitride.
6. (Original) The metal-ceramic circuit board according to claim 3, wherein said ceramic substrate board is made of a material selected from alumina, aluminum nitride and silicon nitride.
7. (Currently Amended) A power module comprising:
  - a base plate of aluminum or aluminum alloy, the base plate having a proof stress of not higher than ~~[[320]]~~ 95 (MPa) and a thickness of not smaller than 1mm;
  - a ceramic substrate board; and
  - a semiconductor tip;wherein one surface of the ceramic substrate board is bonded directly to the base plate without any intervening material in such a manner that the aluminum or aluminum alloy is molten, contacted with the ceramic substrate board, and cooled, and wherein said semiconductor tip is provided on ~~the other~~ another surface of said ceramic substrate board.

8-22. (Canceled).

23. (Currently Amended) A metal-ceramic circuit board comprising:

a substantially planar base plate of aluminum or aluminum alloy, the base plate having a proof stress of not higher than ~~[[320]]~~ 95 MPa and a thickness of not smaller than 1mm; and

a ceramic substrate board formed of a planar plate,

wherein one surface of the ceramic substrate board is bonded directly to the base plate in such a manner that the aluminum or aluminum alloy is molten, contacted with the ceramic substrate board, and cooled, ~~the other~~ another surface of the ceramic substrate board has a metal conductive member, said metal conductive member forming part of an electronic circuit member, and ~~[[the]]~~ an area of the base plate is larger than ~~[[that]]~~ an area of the ceramic substrate board.

24. (Previously Presented) The metal-ceramic circuit board according to claim 23, wherein a plurality of ceramic substrate boards are bonded directly on one surface of the base plate.

25. (Previously Presented) The metal-ceramic circuit board according to claim 23, wherein said conductive member is made of a material selected from the group consisting of copper, a copper alloy, aluminum, and an aluminum alloy.

26. (Previously Presented) The metal-ceramic circuit board according to claim 23, wherein said ceramic substrate board is made of a material selected from the group consisting of alumina, aluminum nitride, and silicon nitride.

27. (Previously Presented) The metal ceramic circuit board according to claim 23, wherein said base plate has a heat sink.
28. (Previously Presented) The metal-ceramic circuit board according to claim 23, wherein said metal conductive member is bonded on the other surface of the ceramic substrate board using a brazing material.
29. (Currently Amended) The metal-ceramic circuit board according to claim 1, wherein the circuit board ~~is adapted to~~ can withstand a thermal cycle test of at least 1000 times.
30. (Previously Presented) The metal-ceramic circuit board according to claim 29, wherein the thermal cycle test comprises at least 3000 times.
31. (Currently Amended) A power module according to claim 7, wherein the power module ~~is adapted to~~ can withstand a thermal cycle test of at least 1000 times.
32. (Previously Presented) A power module according to claim 31, wherein the thermal cycle test comprises at least 3000 times.
33. (Currently Amended) The metal-ceramic circuit board according to claim 23, wherein the circuit board ~~is adapted to~~ can withstand a thermal cycle test of at least 1000 times.
34. (Previously Presented) The metal-ceramic circuit board according to claim 33, wherein the thermal cycle test comprises at least 3000 times.

Please add new claims 35-37 as follows:

35. (New) The metal-ceramic circuit board according to claim 1, wherein said base plate has a thickness of 1mm to 30mm.
36. (New) The metal-ceramic circuit board according to claim 7, wherein said base plate has a thickness of 1mm to 30mm.
37. (New) The metal-ceramic circuit board according to claim 23, wherein said base plate has a thickness of 1mm to 30mm.